

# ODNR

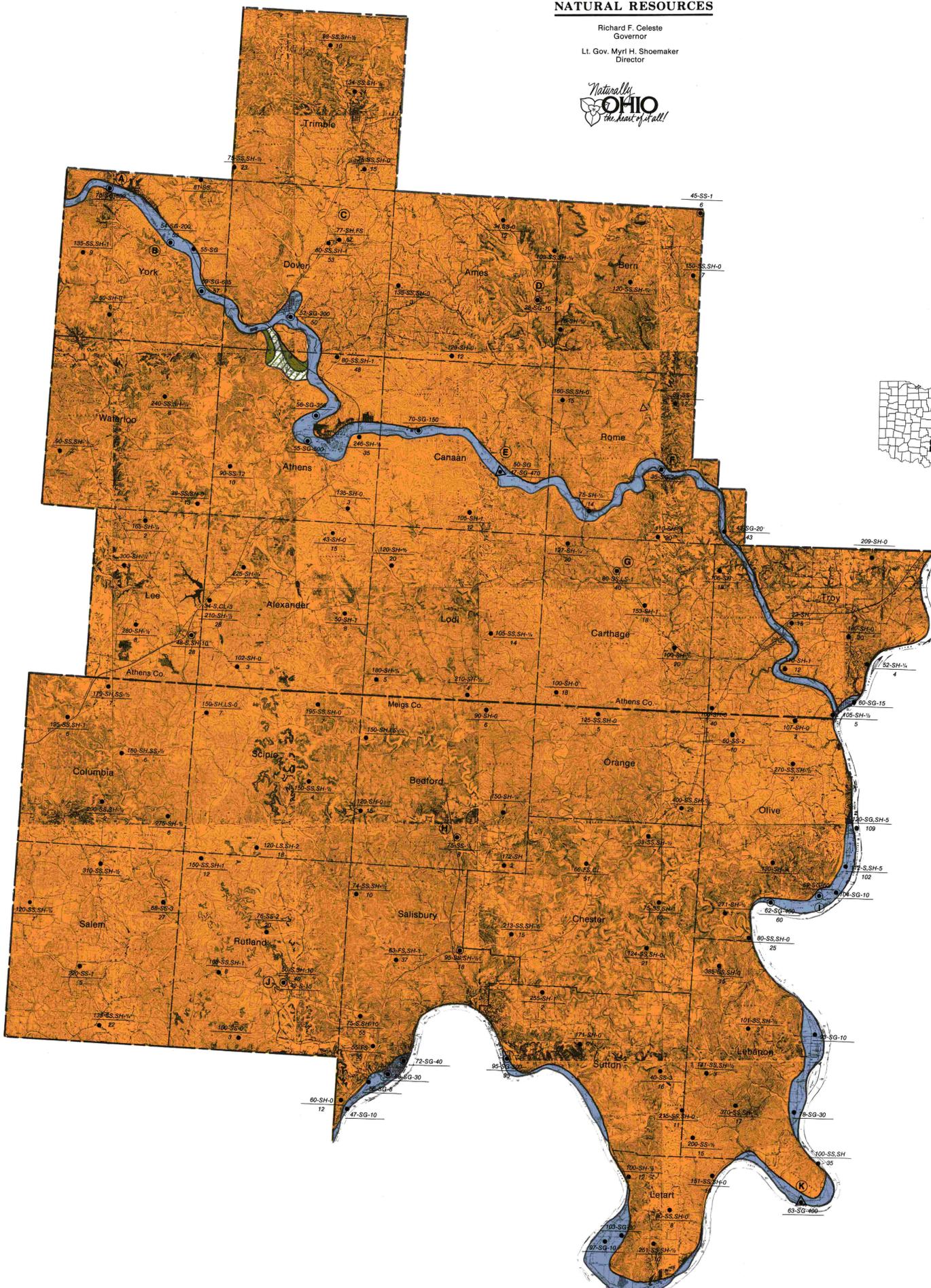
OHIO DEPARTMENT OF  
NATURAL RESOURCES

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## Ground-Water Resources of Athens and Meigs Counties

by  
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Scale in Miles 1:135,000



### LEGEND

- AREAS IN WHICH YIELDS OF 100 TO 500, OR MORE GALLONS PER MINUTE CAN BE DEVELOPED.  
Permeable deposits of sand and gravel beneath the floodplain adjacent to the Ohio and Hocking rivers. Properly constructed wells have a potential yield in excess of 500 gallons per minute. Wells range in depth from 55 to 110 feet with the average of about 80 feet.
- AREAS IN WHICH YIELDS OF 5 TO 15 GALLONS PER MINUTE MAY BE DEVELOPED.  
Wells developed at depths of 35 to 55 feet in sand and gravel deposits. Silty sand noted but drilling into underlying shaly sandstone bedrock is non-productive.
- Wells developed in sand, and sand and gravel at depths of 90 to 110 feet. Silty sand present yet drilling deeper into underlying bedrock yields only very meager supplies. Dry wells are noted.
- AREAS IN WHICH YIELDS OF LESS THAN TWO GALLONS PER MINUTE CAN BE DEVELOPED.  
Alternating layers of shale and thin sandstone yield less than one gallon per minute at depths of less than 125 feet. Deeper drilling is not recommended and dry wells are common. Cisterns, spring horizons, and properly constructed dug wells may supplement a meager well supply.

275-SS,SH-0  
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Depth (ft) - Water-bearing formation-yield (gpm)  
Depth to bedrock (ft.)

- S - Sand
- G - Gravel
- FS - Fine Sand
- CL - Clay
- SS - Sandstone
- SH - Shale
- LS - Limestone
- - Water well
- ⊙ - Public or Industrial Well
- ▲ - Test well
- Ⓐ - Well Site - Chemical Analysis

Well Site	A	B	C	D	E	F	G	H	I	J	J	K
Depth (feet)	53	77	28	47	35	80	75	69	50	42	63	
Aquifer	S & G	S & G	SS-LS	S & G	SG	S & G	SS-LS	SS	S & G	S	S	S & G
Iron	.85	29	1.0	.13	2.7	2.8	.62	.54	.01	2.0	.019	
Manganese	.4	2.3	.08	.10	14	.66	.26	.04	.72	—	—	.008
Sulfate	—	—	3.2	41	44	32	3.6	171	18	154	43	27
Chloride	75	9.0	10	14	6.0	7.0	6.0	11	81	750	11	
Dissolved Solids	—	—	294	297	337	249	286	612	219	528	1670	288
Hardness as CaCO <sub>3</sub>	478	2140	207	218	310	205	217	457	174	321	619	240
Nitrate	—	1.8	14	—	4.6	1.2	.1	1.2	2.3	7.7	37	
Yield (gpm)	800	200	1/2	10	470	20	1	1/2	60	10	15	400

Chemical constituents shown as milligrams/liter.

The ground-water characteristics of Athens and Meigs counties have been mapped regionally, based upon interpretation of more than 2230 well records, and the area's geology and hydrology. Well log data indicated on the map were selected as typical for the areas shown.

Information for specific sites may be obtained from the Division of Water.